

TI-32532

Figure 1

(PICK A CAT)

10

Port.

See 310-1
for details
drawing.



150

a.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x = 4$						

104

106

109

110

MAIN RAD AUTO FUNC 1/1

b.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
SELECT TRANSFORMATION						
$x^2 - 3 \cdot x = 4$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: complete the square						
6: enter subexpr selection						
TYPE OR USE →↑↓ ←→ ENTER OR ESC						

c.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
add ? to each side						
$x^2 - 3 \cdot x = 4$						
? = -4						
Enter=OK ESC=CANCEL						

d.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x = 4$						
► add -4 to each side						
Press <ENTER>						

e.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x = 4$						
► add -4 to each side						
$x^2 - 3 \cdot x + -4 = 4 + -4$						

f.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x = 4$						
► add -4 to each side						
$x^2 - 3 \cdot x + -4 = 4 + -4$						
► simplify						
Press <ENTER>						

g.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x = 4$						
► add -4 to each side						
$x^2 - 3 \cdot x + -4 = 4 + -4$						
► simplify						
$x^2 - 3 \cdot x - 4 = 0$						

h.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
SELECT TRANSFORMATION						
$x^2 - 3 \cdot x - 4 = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: quadratic formula						
6: enter subexpr selection						

i.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x + -4 = 4 + -4$						
► simplify						
$x^2 - 3 \cdot x - 4 = 0$						
► factor left-hand side						
$(x - 4) \cdot (x + 1) = 0$						

j.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
SELECT TRANSFORMATION						
$(x - 4) \cdot (x + 1) = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: A+B=0 → A=0 or B=0						
5: distribute multiplication						
6: $(A \pm B) \cdot C \rightarrow A \cdot C \pm B \cdot C$						
7: A-(B+C) → A-B ± A-C						

k.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x - 4 = 0$						
► factor left-hand side						
$(x - 4) \cdot (x + 1) = 0$						
► A-B=0 → A=0 or B=0						
$x - 4 = 0 \text{ or } x + 1 = 0$						

l.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
$x - 4 = 0 \text{ or } x + 1 = 0$						
1:solve linear equation						
2:enter subexpr selection						

m.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$(x - 4) \cdot (x + 1) = 0$						
► A-B=0 → A=0 or B=0						
$x - 4 = 0 \text{ or } x + 1 = 0$						
► solve linear equation						
$x = 4 \text{ or } x = -1$						

n.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
$x^2 - 3 \cdot x - 4 = 0$						
► quadratic formula						
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$						

o.

F1 Prob	F2 Set	F3 a+b	F4 Trans	F5 >	F6 ?	F7 Tools
P1: Solve for x						
► quadratic formula						
$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot -4}}{2 \cdot 1} \text{ or }$						
► simplify						
$x = 4 \text{ or } x = -1$						

Figure 3

Figure 3

P3: Solve for x
 $x^2 - 3x = 4$
 ► add -4 to each side
 $x^2 - 3x + -4 = 4 + -4$
 ► simplify
 $x^2 - 3x - 4 = 0$

(a)

SELECT TRANSFORMATION
 $x^2 - 3x - 4$
1:factor
 2:H-B ~ H+~B
 3:exit subexpr selection
 4:rewrite as ?
 TYPE OR USE --> t1 + (ENTER) OR (ESC)

(b)

P3: Solve for x
 $x^2 - 3x = 4$
 ► add -4 to each side
 $x^2 - 3x + -4 = 4 + -4$
 ► simplify
 $x^2 - 3x - 4 = 0$

(c)

SELECT TRANSFORMATION
 $-3 <$
1:arithmetic
 2:H/B ~ -(H/B)
 3:arith, - 0 & 1 ident
 4:A*B ~ B*A
 5:exit subexpr selection
 6:rewrite as ?
 TYPE OR USE --> t1 + (ENTER) OR (ESC)

(d)